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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/566,852	02/22/2006	Hiromi Yoshida	JFE-05-1840	9915
	7590 10/27/200 DLA PIPER LLP (US	EXAMINER		
ONE LIBERTY	PLACE	•	YEE, DEBORAH	
PHILADELPH	ST, SUITE 4900 IA, PA 19103		ART UNIT	PAPER NUMBER
			1793	
			NOTIFICATION DATE	DELIVERY MODE
			10/27/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

pto.phil@dlapiper.com

Office Action Summary		Ap	plication No.	Applicant(s)	Applicant(s)			
		10)/566,852	YOSHIDA ET AL.	YOSHIDA ET AL.			
		Ex	aminer	Art Unit				
			borah Yee	1793				
َ ۔۔ Period for l	The MAILING DATE of this commun Reply	ication appears	on the cover sheet	with the correspondence a	ddress			
WHICHI - Extensio after SIX - If NO pe - Failure t Any repl	RTENED STATUTORY PERIOD F EVER IS LONGER, FROM THE M ons of time may be available under the provisions (6) MONTHS from the mailing date of this commod for reply is specified above, the maximum storeply within the set or extended period for reply by received by the Office later than three months appeared by the Office later than three months appeared term adjustment. See 37 CFR 1.704(b).	MAILING DATE of 37 CFR 1.136(a). nunication. atutory period will app will, by statute, caus	OF THIS COMMUN In no event, however, may oly and will expire SIX (6) Mo e the application to become	IICATION. a reply be timely filed DNTHS from the mailing date of this of ABANDONED (35 U.S.C. § 133).				
Status								
1)⊠ R	esponsive to communication(s) file	ed on <i>13 Octob</i>	er 2009					
·	•	2b)⊠ This acti						
/—	ince this application is in condition	<i>,</i> —		atters, prosecution as to the	e merits is			
<i>,</i> —	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition	of Claims							
4)⊠ C	laim(s) <u>11-29</u> is/are pending in the	application.						
•	4a) Of the above claim(s) is/are withdrawn from consideration.							
	5) Claim(s) is/are allowed.							
•	laim(s) <u>11-29</u> is/are rejected.							
	laim(s) is/are objected to.							
•	laim(s) are subject to restric	ction and/or ele	ction requirement.					
Application	ı Papers							
9)□ Th	e specification is objected to by th	e Examiner						
•	e drawing(s) filed on <u>01 February</u>)⊠ accepted or b)□	objected to by the Exam	iner.			
•	oplicant may not request that any obje		· · · · · · · · · · · · · · · · · · ·					
					ER 1 121(d)			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority und	der 35 U.S.C. § 119							
a)⊠ 1.	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No							
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
566	s the attached detailed Office actio	mi ioi a iist oi ti	ie certinea copies na	n received.				
Attachment(s)			, .	O (DTC (10)				
1) Notice of References Cited (PTO-892) A) Interview Summary (PTO-413) Discrete of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date								
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:								

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on October 13, 2009 has been entered.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 3. Claims 11 to 29 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.
- 4. The amendment "C in solution is 0.0079 to 0.0415%" raises a new matter issue since there is no clear support in the original disclosure for this artificially created generic range. Applicants stated Fig.1 of the Declaration of Mr. Okuda submitted in Response dated September 14, 2009 shows that inventive C in solution is between about 0.0079% on the graph up to just in excess of 0.04 (specifically 0.0415%). This

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statement is not accurate because graph indicates inventive steel contains C in solution at an amount < 0.03% and going beyond 0.03% results in r-value ≤ 1.0.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 11 to 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Japanese patent 2002-26941 (hereafter "JP-941") for the reasons set forth in the previous office actions.

Response to Arguments

- 7. Applicant's arguments filed October 13, 2009 have been fully considered but they are not persuasive.
- 8. To distinguish claims over JP-941, Applicant amended claims by incorporating C in solution at 0.0079 to 0.0415%. This range does not accurately define the invention for the reasons stated in prior paragraph No. 4. It is recommended to define C in solution by reciting the percentage of C in solution as -- C in solution is 79 to 83% of total C content ---. The support for limitation is established base on examples 17 and 18, and 35 shown in table 2-1 to 2-2. Examples 17 and 18 has a C $_{\rm fix}$ = 21% and Example 35 has a C $_{\rm fix}$ = 17% and as submitted by Applicants, C_{total} = C_{fix} + C_{sol} such that C $_{\rm sol}$ is 79% and 83%, respectively.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deborah Yee whose telephone number is 571-272-1253. The examiner can normally be reached on monday-friday 6:00 am-2:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on 571-272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Deborah Yee/ Primary Examiner Art Unit 1793